

مراجعة

Science

أ. محمد عبدالسلام



1 Choose the correct answer:

	Light		
 Light travels (transmit curved 	ts) (propagates) in b straight		
 Light traveling in a str radio 	aight line is the principle b camera		
	n't allow light to travel th b Translucent		nt d Opaque
4. A sheet of aluminum fa Transparent	oil is an example ofb Translucent		nt d Opaque
5. The nearer the objecta smaller	is to the light source, the b bigger	its shadov	v.
6. The speed of light in aa faster than	ir is that in water b slower than	er. c equal to	
	rection when it passes fro b light refraction		
	rection when it falls on sn b light refraction		
9. Light where a refracts	to it passes from water to be reflects	air. c separates	d scatters
10. Light who	en it falls on smooth and b reflects	shiny surfaces. c separates	d scatters
11. A pencil seems to bereflection	broken at water surface of brefraction	due to of	light. d absorption
12. The prism separates3	sunlight intoco	c 7	d 9
	Seeing colored	d objects	
13. A blue t-shirt seemsa blue	behind red gla	ss sheet. c black	
14. When you look at a rred	ed apple through a yellow b black	glass sheet, the appoint green	ole seems d yellow



↑ physicsworkout

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15. Red light + Green lighMagenta	t + Blue light = b Yellow	 C White	
16. Black opaque objectsabsorbs	all light colors b reflects		of the previous
17. Red, green and blue liprimary	ghts arelights. b secondary	c complementary	
18. Magenta, cyan and yeprimary	ellow lights arel	ights. c complementary	
19. Mixing red and blue g	ives b magenta	c yellow	
20. Mixing red and greena cyan	gives b magenta	c yellow	
21. Mixing green and bluecyan	e gives b magenta	c yellow	
22. Mixing red, green anda cyan	blue givesb magenta	c yellow	d white
23. Mixing all the primarya red	y-colored lights gives b green	color.	d white
24. As light falls on a banred	b green	all colors except the	color. d yellow
	Magnetis	sm	
25. The natural magnet v a 2000	vas discovered b 2500	years ago. c 3500	d 4000
26 used to local Compass	ate the main four direction Dynamo	on. C Prism	
27. When a magnet is sugar north-south	spended (hanged) freely, to be east-west	the magnet takes c north-east	direction d north only
28. When a magnet is sugar north	spended (hanged) freely, i b south	its north pole refers to the control c	d west
29. When a magnet is sug	spended (hanged) freely, i b south	its north pole refers to the	d west
30. The magnet has	pole(s). b 3	c 2	d 1

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	Which of the followir Nail	g is a magnetic material? b glass	C	paper	d chalk
		nagnet in which the magn b magnetic substance			
	All of the following m	aterials are not attracted b paper		the magnet except glass	d nickel
	The natural magnet is copper	s one of the ores. b aluminum		iron	
	Different magnetic po repel	oles each other. b attract	C	intersect	
	is attract Glass	b Cobalt		Chalk	d Aluminum
		Magnetism and	ele	ectricity	
37.	The huge electromag a electric bells	net is used inb cranes	C	telephones	
38.	scientist value Gilbert	who invented the dynamo b Faraday		Hertz	
39.	The dynamo generate a thermal	es energy from b electrical		echanical (kinetic) ene light	rgy. d kinetic
<i>/</i> . O	The soil of a dynama	is made up of			
40.	a copper	is made up of b carbon	C	iron	
41.	Electric energy is con a electromagnet	verted into magnetic ener b dynamo		in electric bell	
42.	The dynamo is fixed i	n the bicycle touching the		cycle's tires	
		Mixture	S		
43.	is usedEvaporationSeparating funnel	I to separate a mixture of	oil b	and water. Filtration Magnetic attraction	
44.	The mixture of iron for a Evaporation Control Separating funnel	llings and sand can be sep	b	eted by Filtration Magnetic attraction	
45.	Solution is a		C	pure substance	



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		Soluti	ions	
46.	The most common s a alcohol	solvent is b water	c benzene	
47.	The material that di a solute	ssolves to produce a sol	ution is called c mixture	
48.	The result of solubil a solute	ity process is called b solvent	solution	
4 9.			b increasing the amour	nt of solute.
50.	Increasing temperat a increases	turesolubilit	y time. c has no effect	
51.	Increasing the amou a increases	unt of solvent b decreases	solubility time. c has no effect	
52.	Increasing the amou a increases	unt of solute b decreases	speed of solubility. c has no effect	
53.	The solute in chocol a milk	ate-milk solution is the b water	c chocolate	
54.	The solute in the sa sugar	lty solution isb water	c salt	
55.	The solvent in choco a milk	olate-milk solution is the b water	c chocolate	
56.	Water is a common a thousands of	solvent because b few	substances dissolve in it.	
57.	Stirring th	ne speed of the solubility b decreases	y process. c has no effect on	
58.	Solubility time decrease temperature	eases by increasing b amount of solvent	c both of them	
	The speed of solubil a increases The most common s a alcohol	b decreases	increasing the temperature. c has no effect benzene	
61.	All of these factors	affect solubility process	except	d type of sol



Environmental Balance unit

62. An example of dec	omposers (saprophytic o	organisms) is c cats	
	place by some living org b Parasitism	anisms to hide from their en	emies.
·	onsidered asb consumers	c producers	
65. A water pond is a . a small	b large	c very large	
66. In the food relation	nship between a man and b prey	d a bilharzias worm, the mar	is ad parasite
67. The relation between a mutualism	een bilharzia worm and n b symbiosis	nan is c predation	d parasitism
	otosynthesis is done by a	i living organism.	
69. The types of paras	sites are b internal	c All of the previous	
70. The relationship be a parasitism		aquatic living organisms is c commensalism	
71. All of the following a lice	g are external parasites e	except c liver worm	d lamprey
72. The food relations parasitism	hip between a cat and a b predation	rat is an example of	
73. Bilharzia worm is a external	anparasite. b internal	c both	
74. The animal that de parasite	evours another animal is b predator	called c prey	
75. Bees looking like v	vasp is phenom b commensalism	enon. c mimicry	
76. Mosquito conveys a malaria	disease to ma	n. c cancer	d elephantiasis
77. Predation relations a increases	shipthe numb b decreases	er of preys in populations.	
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Write the scientific term:
1. The main source of light on the Earth.
2. Materials that allow some colored light to pass through them.
3. The seven colors which the white light is made up of.
4. The light energy that can be seen.
5. Phenomenon formed in the sky after rain and sun still shining.
6. Darkened area foamed behind an object once light falls on it.
7. The light that we can get by mixing two of the primary colored lights.
8. Red, green and blue colored lights.
9. Yellow, magenta and cyan colors.
10. The change of light rays directions when they transmit the separate surface between
two different transparent media.
11. The light that we can get by mixing two of the primary colored light.
12. Materials that don't allow light to transmit through and objects can't be seen through.
13. The light resulted from mixing of red light and blue light.
14. Materials allow most light to pass through them.
15 . A set that is used for locating the main four geographical directions.
16. One of the iron ores which is known as magnetite.
17. A set used to change electric energy into magnetic energy.
18. A device used to convert kinetic energy into electric energy.
19. The materials that are attracted to the magnet.
20. The materials that don't get attracted to the magnet.
21. The magnetic pole which is attracted to the north pole of another magnet.
22. Regions of the magnet, where the magnetic force is most powerful.
23. The force by which the magnet attracts some materials.

solute.

25. It is the process by which a solute dissolve in a solvent leading to the disappearance of

24. A substance that consists of more than one type of particles.

26. Mixture which is composed of a solute and a solvent.

27. The substance which dissolves (disappears) in a solvent.



- 28. It is the substance in which the solute disappears (dissolves).
- 29. Substance that consists of only one type of identical particles.
- 30. A process that is used to separate a solid material dissolved in water.
- 31. A type of substance in which their components can be separated easily.
- 32. A method that is used to separate iron filings from sand.
- 33. Process used to separate the solid materials that are insoluble in water.
- 34. A process used to separate salt from water.
- 35. Liquid used to dissolve the solute to make a solution.
- 36. The mixture results from the solubility of solids in liquid.
- 37. An apparatus used to separate immiscible liquid mixtures.
- 38. A set that is used to separate water-oil mixture.
- 39. It is the food relationship among living organisms in which one living organism devours another one.
- 40. The harmed organism in parasitism relationship.
- 41. Kind of plants that devour insects.
- 42. Any natural area contains living organisms and non-living things.
- 43. A phenomenon in which living organisms change their color to be hidden from enemies.
- 44. The temporary food relationship that end by devouring the prey or a part of it.
- 45. A temporary relationship between two different organisms with a benefit to one and harm to the other.
- 46. It is the internal parasite which causes bilharzia disease.
- 47. Food relationship between nodular bacteria and leguminous.
- 48. The food relationship between two living organisms that benefit from each other.







 1. The image through narrow holes is inverted and minimized. Formation of shadow when light falls on an opaque body. The formation of image through narrow holes. Formation of shadow.
2. We see a picture behind the glass clearly.
3. Light spectrum is formed.
4. A clear glass sheet is a transparent material.
5. A raft paper is a translucent material.
6. Aluminum is an opaque material.
7. Spoon appears broken in transparent cup filled with water.
8. When light fall on a white paper, it appears white color.
9. The Banana appears yellow when sunlight falls on it.
10. The red apple seems black when you look at it through a green glass sheet.
11. We must wear white clothes in summer season.
12. We wear black clothes in winter.
13. Yellow is called a secondary colored light.
14. Iron is a magnetic material.



15. Plastic is a non-magnetic material.
16. Compass needle deflects when an electric current passes through a wire near it.
17. Sugar is a pure substance.
18. Air is considered as a mixture.
19. Tomato sauce is a mixture.
20. It is possible to separate iron filings from sand by using magnetic attraction.
21. Water is a common solvent.
22. Drosera is an insectivorous plant.
23. Predation is temporary food relationship.
24. Predation is less common in plant world than in animal world.
25. A butterfly stands on a tree with the similar color.
26. Bilharzia worm is considered a parasite.
27. Parasitism relationship differs from predation relationship.
28. The host's death is considered a loss to the parasite.





4

Complete each of the following sentences:

1. The object's image formed through narrow holes is and and
2. The material in which light can transmit through is called
3. The spectrum colors start with and end with
4. We can see, when sunlight passes through water droplets during rain fall.
5. When light passes from water to air, it because light speed in air is
than that through water.
6.Sunlight is separated into colors by passing it through a
7. From primary colored lights, and from secondary colored lights
8. From primary light colors:, and and
9. Secondary colors are and and
10 objects seems having the same color of the light which it reflected.
11. Mixing and lights gives cyan light.
12. Light speed through air is than that through water.
13. The prism separates sunlight into
14. The color lies between the green color and the indigo color.
15. On mixing two primary light colors, a light color is produced.
16. The whiteboard all the light colors, while the blackboard the light colors.
17. The magnet is black stone made of iron ores which called
18. Like poles each other, whereas unlike poles each other.
19. The substances can be divided into and due to their magnetic ability.
20. The magnetic force is most powerful at the of the magnet.
21. The like poles each other, whereas the poles attract each poles.
22. The contains a small light magnet that moves freely around a fixed axis.
23. The idea of electric generator is change energy into energy.
24. Electromagnet changes energy to energy.
25. The coil of a dynamo is made up of wire.
26. Mixing a small amount of sand with water forming a that can be separated
by
27. The relationship between sponge and tiny aquatic living organisms is
28. The speed of solubility by increasing stirring process.
29. Sand-water mixture can be separated by



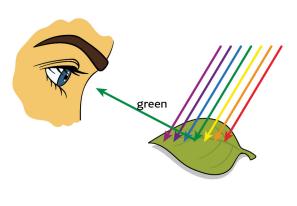
30. Solid materials can be mixed by or or
31. A liquid mixture formed of a solute and a solvent is called
32. The Solubility process needs the presence of and and
33. Increasing decreases solubility time.
34 is a general solvent because of its ability to dissolve most materials.
35 worm causes elephantiasis disease.
36. Mosquito is an parasite, while ascaris worm is an parasite.
37 is any area including living and nonliving organisms.
38. The food relationship between nodular bacteria and bean, whereas the food
relationship between fungi and dead bodies is
39. Mosquitoes convey disease, while ascaris worm cause disease.
40. The relationship between sponge and tiny aquatic living organisms is
41. A butterfly uses as it stands on a tree with a similar color.
42. Green plants are known by organisms.
43. Food relationship in which both organisms benefit from each other is
44. Ecosystem may be small as or large as
What happens when?
1. You put an opaque object between a lightened torch and the wall.
2. You look at a street through a translucent window.
3. You look at a lightened candle through three screens with centered holes in one straight line.
4. Yellow light falls on black object.
5. Mixing green and blue lights.
6. You approach a magnet to cobalt and chalk mixture.
7. A magnet is hanged to move freely.

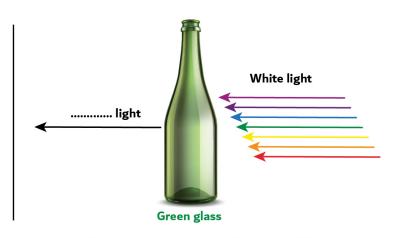


8. You sprinkle some iron filings on a paper sheet which has a strong magnet under it
9. An electric current passes through a coiled wire around wrought iron bar.
10. You put the copper wire which is connected with ammeter (to measure the electric current intensity) between the two poles of magnet.
11. You shake an amount of sugar with water.
12. You heat salty water.
13. Some types of frogs are attacked by enemies.
14. A cuttlefish is attacked by enemies.
15. There are no nodular bacteria in the roots of leguminous plants as beans.
16. You splash some water drops on a slice of bread, put it in a closed bag and leave it for a few days in the dark.
17. Saprophytes disappear from earth.

Answer each of the following:

1. What is the color of each object?







2. Look at the opposite figu	re, then answer the fol	lowing:	Part (b)	
1) Label the figure:			$\wedge \wedge \wedge \wedge$	$\wedge \leftarrow \rightarrow \bigcirc$
Part (a): Part (b):	Part (c):		VVVV	
2) The figure represents:				Part (a)
3) The apparatus is used to	changeenerg	y into	\\ //	
energy.				
			Part (c)	D . / /
3. Look at the opposite figu	re, then answer the fol	lowing:		Part (c)
1) Label the figure:				
Part (a): Part (b):	Part (c):			Part (b)
2) The figure represents:				
3) The apparatus is used to	changeenerg	y into		Part (a)
energy.				+
4. Look at the opposite figu	re, then answer the fol	lowing:		
1) The opposite figure repres				WITH THE STATE OF
2) The device consists of			a	8
fixed axis.			W W	© ₹ m = g
3) It is used to			St. II.	S A MANAGER STATE OF THE STATE
				780
How can you separ	ate each of the follo	wing mixtu	ıres:	
1. Chalk and water.				
2. Sand and water.				
3. Sand and salt.				
4. Paper clips and sugar.				
5. Iron and salt.				
6. Oil and water.				
7. Salty solution.				
8. Sugary solution.				



8	Mention the following:
0	Mention the following.

1. Properties of light.	
2. The difference between regular and irregular reflection.	
3. The idea of the camera.	
4. Properties of mixtures.	
5. The difference between solute and solvent.	
6. The difference between predator and prey.	

9 Identify the food relation among the following organisms:

1. Sponge and tiny aquatic living organism.

7. The difference between parasite and host.

- 2. Man and liver worm.
- 3. Leguminous plants and nodular bacteria.
- 4. A cat and a rat.
- 5. A lion and a deer.
- 6. Bread mold fungus.
- 7. Bilharizia worm and man.

انتھينا بفضلٍ من الله وتوفيقه ،،،





Model Answers

Choose the correct answer:

- 1. **b** 2. b 3. d 4. d b 5. 6. a 7. **c** 8. a 9. a 10. **b**
- 17. a 18. **b** 19. **b** 20. C 21. a 22. d 23. d 24. d 25. a 26. a 27. a 28. a 29. a 30. C 31. a 32. c
- 33. d 34. C 35. **b** 36. **b** 37. **b** 38. **b** 39. **b** 40. a 41. a 42. c 43. c 44. d 45. b 46. b 47. a 48. c
- 50. **b** 51. **b** 52. a 53. C 54. **b** 55. a 56. a 57. a 58. c 59. a 60. **b** 61. **b** 62. a 63. a 64. **C**
- 49. **a** 65. a 66. C 67. d 68. **c** 69. **c** 70. C 71. C 72. **b** 73. **b** 74. b 75. c 76. a 77. c

Write the scientific term:

1. The sun

11. **b**

12. C

13. C

14. **b**

15. C

16. a

- Semi-transparent (translucent) materials
- 3. Spectrum colors
- 4. The visible spectrum
- 5. Rainbow
- 6. Shadow
- 7. Secondary colored lights
- 8. Primary colored lights
- 9. Secondary colored lights
- 10. Light refraction
- 11. Seconary light color
- 12. Opaque materials
- 13. Magenta color
- 14. Transparent materials
- 15. Compass
- 16. Natural magnet
- 17. Electromagnet

- 18. Dynamo
- 19. Magnetic material
- 20. Non-magnetic material
- 21. South pole
- 22. Magnetic field
- 23. Magnetic force
- 24. Mixture
- 25. Solubility process
- 26. Solution
- 27. Solute
- 28. Solvent
- 29. Pure substance
- 30. Evaporation
- 31. Mixtures
- 32. Magnetic attraction
- 33. Filtration
- 34. Evaporation

- 35. Solvent
- 36. Solid-liquid mixture
- 37. Separating funnel
- 38. Separating funnel
- 39. Predation
- 40. Host
- 41. Insect-eater
- (insectivorous) plants
- 42. Ecosystem
- 43. Camouflage
- 44. Predation
- 45. Predation
- 46. Bilharzia worms
- 47. Mutualism
- 48. Mutualism





Give reason for:

- 1. Because light travels in straight lines.
- 2. Because glass is a transparent material that allows most light to pass through and we can see objects clearly through it.
- 3. Due to the separation of white light into seven spectrum colors.
- 4. Because it allows most light to pass through and we can see objects clearly through it.
- 5. Because it allows some light to pass through and we cannot see objects clearly through it.
- 6. Because it doesn't allow light to pass through and we cannot see objects through it.
- 7. Due to refraction of light.
- 8. Because the white paper absorbs all light colors.
- 9. Because the banana fruit absorbs all light colors and reflects the yellow color only.
- 10. Because the red apple reflects the red color which is absorbed by the green glass sheet and doesn't transmit through it, so the apple seems black.
- 11. Because white clothes reflect all light colors that fall on them causing the decrease of feeling of heat.
- 12. Because black clothes absorb all light colors that fall on them causing the feeling of warmth.
- 13. Because it is produced by mixing two of the primary colored lights.
- 14. Because it is attracted to the magnet.
- 15. Because it is not attracted to the magnet.
- 16. Because the electric current has a magnetic effect, where it generates a magnetic field.
- 17. Because it consists of only one type of identical particles.
- 18. Because it consists of more than one type of particles such as nitrogen gas, oxygen gas, carbon dioxide gas and water vapor.
- 19. Because it consists of more than one type of particles such as tomato, oil and water.
- 20. Because iron filings are magnetic materials that are attracted to the magnet.
- 21. Because thousands of solid materials dissolve in it.
- 22. Because it preys some insects to get its required elements for making protein.
- 23. Because it ends up by devouring the prey or a part of it.
- 24. Because plants are autotrophic organisms that can make their own food by photosynthesis process.
- 25. To hide from its enemies.
- 26. Becaust it lives internally inside the host's body and shares the host its digested food or feed on its tissues and cells.
- 27. Because the parasite depends completely on the host to get its food and causes weakness to the host, but doesn't kill it as the predator does with its prey.
- 28. Because the parasite will lose its source of food and shelter.



Complete each of the following sentences:

1. minimized - inverted

2. transparent

3. red - violet

4. rainbow

5. refracts - greater

6. seven - prism

7. red - cyan

8. red, green and blue

9. cyan, magenta and yellow

10. Opaque

11. green - blue

12. greater

13. seven colors

14. blue

15. secondary

16. reflects

17. absorbs

18. repel - attract

19. magnetic - non-magnetic

20. poles

21. repel - attract

22. compass

23. mechanical - electric

24. electric - magnetic

25. copper

26. solid-liquid mixture -

filtration

27. commensalism

28. increases

29, filtration

30. stirring - shaking

31. solution

32. solute - solvent

33. temperature

34. Water

35. Filaria

36. external - internal

37. Ecosystem - natural

38. mutualism -

saprophytism

39. malaria - anaemia

40. commensalism

41. camouflage

42. producer

43. mutualism

44. water pond - forest

What happens when?

- 1. A clear shadow of the object is formed.
- 2. I can see the street clearly.
- 3. I can see the flame of the candle, because light travels in straight lines.
- 4. The black object absorbs the yellow light.
- 5. Cyan color is produced.
- 6. Cobalt is attracted to the magnet and separated from the mixture.
- 7. It takes a fixed direction which is north-south direction.
- 8. The iron filings are arranged around the magnet in a regular way and attracted at the two poles of the magnet.
- 9. The iron bar becomes a temporary magnet called "electromagnet".
- 10. Electric current is proeuced and the pointer of the ammeter deflects.
- 11. A homogeneous mixture (sugar solution) is formed.
- 12. Water evaportes, leaving the salt in the cup.13. It changes its color to hide from its enemies.
- 14. It ejects a black fluid in the surrounding water to hide when attacked by enemies.
- 15. The bacteria won't get the sugar it needs and the plant won't get the nitrogen it needs.
- 16. A dark green layer is formed on teh bread, so the bread gets rotten.
- 17. The Earth's surface will be covered with the bodies of dead organisms.





6 Answer each of the following:

- 1. Green Green
- 2. 1) magnet copper coil lamp
- 2) dynamo
- 3) mechanical electric

- 3. 1) battery copper coil iron nail
- 2) electromagnet 3) electric magnetic

4. 1) compass

- 2) magnetic needle
- 3) identify the main four geographical directions.
- 7 How can you separate each of the following mixtures:
- 1. Filtration
- 2. Filtration
- 3. Dissolving the mixture in water then evaporation.
- 4. Magnetic attraction
- 8 Mention the following:
- Traveling of light in a straight line Transmitting of light through different materials -Light reflection - Light refraction - Light separation.
- 2. Regular reflection: It is the reflection of light when it falls on a smooth and shiny reflection surface, where light rays are reflected directed in one direction.

Irregular reflection: It is teh reflectino of light when it falls on a rough reflecting surface, where light rays are refelected and scattered in different directions.

- 3. Light traveling in a straight line.
- 4. Separated easily keeps its properties mixed at any ratio.
- 5. Solute: It is the substance which dissolves in a solvent.

Solvent: It is the liquid substance in which a solute dissolves.

6. Predator: It devours the other living organism.

Prey: It is the devoured living organism.

7. Parasite: It is the living organisms that benefits from the other.

Host: It is the living organism that gets harmed.

- 9 Identify the food relation among the following organisms:
- 1. Commensalism

5. Predation

2. Parasitism

6. Saprophytism

3. Mutualism

7. Parasitism

4. Predation